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- Capitalize proper nouns to search for specific people, places, or products.

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [A reliable datagram protocol on local area networks](#)

D Lee, K Chon, C Chung

 August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols**, Volume 16 Issue 3

Full text available: pdf(732.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most of interprocess communications in transaction oriented distributed systems are based on client-server model, in which one process communicates with several processes simultaneously. Datagram service fits this type of communication rather than virtual circuit service. Transaction oriented distributed systems sometimes need to move large data such as a file or a part of database from a machine to other. The reliable delivery is fairly important since an error might cause retransmission o ...

2 [A data link control protocol for LEO satellite networks providing a reliable datagram service](#)

Christopher Ward, Cheong H. Choi, Thomas F. Hain

February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1

Full text available: pdf(1.57 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)**3** [Connectionless data transmission](#)

A. Lyman Chapin

April 1982 **ACM SIGCOMM Computer Communication Review**, Volume 12 Issue 2

Full text available: pdf(2.16 MB)

Additional Information: [full citation](#), [abstract](#)

The increasingly familiar and ubiquitous Reference Model of Open Systems Interconnection, currently being considered by the International Organization for Standardization (ISO) as a Draft International Standard (DIS), is based on the explicit assumption that a "connection" -- an association between two or more communication entities, possessing certain characteristics over and above those possessed by the entities themselves - is required for the transfer of data in an Open Systems Interconnecti ...

4 [A data highway for realtime distributed systems architecture and formalization](#)

A. Faro, O. Mirabella

August 1982 **Proceedings of the 5th ACM SIGSMALL symposium on Small systems**

Full text available:  pdf(350.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper the authors describe the Proway, a standard data highway architecture for process control, that I.E.C. is developing. Communication aspects are examined and a formal description of Highway layer is performed by using a state finite graph.

5 A survey of asynchronous remote procedure calls



A. L. Ananda, B. H. Tay, E. K. Koh

April 1992 **ACM SIGOPS Operating Systems Review**, Volume 26 Issue 2

Full text available:  pdf(910.89 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Remote Procedure Call (RPC) is a popular paradigm for interprocess communication in distributed systems. It is simple, flexible and powerful. However, most of the RPC systems today are synchronous in nature, and hence fail to exploit fully the parallelism inherent in distributed applications. In view of this, various asynchronous RPC systems have been designed and implemented to achieve higher parallelism while retaining the familiarity and simplicity of synchronous RPC. Asynchronous RPC calls d ...

Keywords: asynchronous RPC, distributed systems, high-throughput, interprocess communication (IPC), intra-machine call, low-latency, parallelism, remote procedure call (RPC), synchronous RPC, transport-independent

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Yuh-Ming Shyy, Stanley Y. W. Su

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available: [pdf\(1.17 MB\)](#)Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Frame-sliced partitioned parallel signature files](#)**

Fabio Grandi, Paolo Tiberio, Pavel Zezula

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on
Research and development in information retrieval**

Full text available: pdf(1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The retrieval capabilities of the signature file access method have become very attractive for many data processing applications dealing with both formatted and unformatted data. However, performance is still a problem, mainly when large files are used and fast response required. In this paper, a high performance signature file organization is proposed, integrating the latest developments both in storage structure and parallel computing architectures. It combines horizontal and vertical app ...

2 [Partitioned signature files: design issues and performance evaluation](#)

Dik Lun Lee, Chun-Wu Leng

April 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 2

Full text available: pdf(1.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A signature file acts as a filtering mechanism to reduce the amount of text that needs to be searched for a query. Unfortunately, the signature file itself must be exhaustively searched, resulting in degraded performance for a large file size. We propose to use a deterministic algorithm to divide a signature file into partitions, each of which contains signatures with the same "key." The signature keys in a partition can be extracted and represented as the partition's key. The s ...

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